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(54) MANUFACTURE OF PRINT HEAD FOR INK JET PRINTER

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**PURPOSE:** To prevent ink from pushed out to an adjacent channel and jetted through an adjacent nozzle by polishing the junction faces of first and second plates of a photosensitive glass so that a specific center line average roughness is achieved and then stacking the first and second plates and fusing them thermally.

**CONSTITUTION:** A photosensitive glass is cut out into first and second hexagonal plates. An ink sump groove 3, a jet groove 4, a flow-out channel 5 and an ink supply through-hole 6 are formed in the first plate 1 whereas an ink sump through-hole 7 and an ink supply channel 8 are formed in the second plate 2. Average center line roughness (Ra) on one junction face of these plates is set  $0.04\mu\text{m}$  or less and that on the other opposing junction face is set in the range of  $0.3\text{--}5.0\mu\text{m}$ . These plates are then stacked and thermally fused leaving no unfused part between the junction faces.

